

WHAT IS CLAIMED IS:

1. An apparatus for the remote monitoring and control of a computing component, the apparatus comprising:

5 at least one processor;

 at least one memory operably coupled to the processor;

 a communications interface operably coupled with the processor and the memory;

10 the communications interface operable to receive information from and transmit information to a first computing component;

 a transceiver operably coupled to the processor and the memory;

15 the transceiver operable to transmit information to and receive information from a communications network;

 at least one program of instructions storable in the memory and executable by the processor; and

20 the program of instructions operable to monitor at least one characteristic of the computing component and to control at least one function of the first computing component.

2. The apparatus of Claim 1 further comprising:

25 at least one environmental sensor operably coupled to the processor; and

 the environmental sensor operable to measure at least one environmental characteristic of a computing component.

30

3. The apparatus of Claim 1 further comprising:
at least one LAN transceiver operably coupled to the
processor; and

the LAN transceiver operable to transmit information
5 to and receive information from a network.

4. The apparatus of Claim 3 further comprising the
LAN transceiver operable to communicate with at one
intelligent management and control transceiver.

10

5. The apparatus of Claim 1 further comprising a
power supply operably coupled to at least the processor
and the memory.

15

6. The apparatus of Claim 1 further comprising the
program of instructions operable to effect monitoring and
control instructions communicated from a web page.

20

7. The apparatus of Claim 1 further comprising the
transceiver operable to communicate computing component
status to a remote device.

25

8. The apparatus of Claim 1 further comprising a
program of instructions storable in the memory and
executable by the processor operable to test at least one
computing component capability.

9. The apparatus of Claim 1 further comprising the
processor, the memory, the communications interface and

the transceiver integrated onto a computing component expansion card.

10. The apparatus of Claim 1 further comprising the
5 communications interface operable to receive information from and transmit information to at least one computing component operably coupled to the first computing component.

10 11. The apparatus of Claim 1 further comprising the transceiver operable to transmit information to and receive information from a wireless communications network.

15 12. The apparatus of Claim 1 further comprising:
the program of instructions operable to generate an alert upon detection of a monitored event; and
The transceiver operable to communicate the alert to the communications network.

13. A system for remotely managing at least one computing component, the system comprising:

an intelligent transceiver operably coupled to the computing component through a communications interface;

5 the intelligent transceiver including a processor operably coupled to a memory and a transceiver operably coupled to the processor and the memory;

the transceiver operable to transmit information to and receive information from a network;

10 an operating system storable in the memory and executable by the processor;

the operating system including at least one instruction operable to communicate via the network, at least one instruction operable to monitor and control at least one facet of the computing component and at least one instruction operable to enable the remote management of the computing component;

a local agent storable in a memory and executable in a processor of the computing component; and

20 the local agent operable to communicate one or more characteristics of the at least one facet to the operating system.

14. The system of Claim 13 further comprising a wireless transceiver.

15. The system of Claim 13 further comprising:
at least one remote device operably coupled to the network; and

the remote device operable to transmit information to and receive information from the intelligent transceiver.

5 16. The system of Claim 13 further comprising the intelligent transceiver operably coupled to a plurality of computing components.

10 17. The system of Claim 13 further comprising the intelligent transceiver operable to update the operating system via the network such that the intelligent transceiver is operable to communicate with one or more network and computing component platforms.

15 18. The system of Claim 13 further comprising the intelligent transceiver operable to receive information from and transmit information to another intelligent transceiver.

20 19. The system of Claim 13 further comprising:
 one or more environmental sensors operably coupled to the processor; and
 the environmental sensors operable to measure at least one environmental characteristic of the intelligent
25 transceiver.

 20. The system of Claim 13 further comprising:
 a power supply operably coupled to the intelligent transceiver; and

the power supply operable to provide power to the intelligent transceiver in response to a power failure of the computing component.

- 5 21. The system of Claim 13 further comprising:
a LAN transceiver operably coupled to the processor
and the memory of the intelligent transceiver; and
the LAN transceiver operable to communicate
information with a local area network.

10

22. The system of Claim 13 further comprising the operating system including at least one instruction operable to alert at least one remote device in response to detection of a monitored event.

23. An intelligent management and control transceiver comprising:

a processor;

a memory operably coupled to the processor;

5 a communications interface operably coupled to the processor and the memory;

the communications interface operable to communicate information to and from a computing component;

10 a transceiver operably coupled to the processor and the memory;

the transceiver operable to communicate information to and from a wireless communications network;

a LAN transceiver operably coupled to the processor and the memory;

15 the LAN transceiver operable to communicate with at least one remote intelligent management and control transceiver;

at least one environmental sensor operably coupled to the processor and the memory;

20 the at least one environmental sensor operable to monitor one or more environmental characteristics of the computing component;

a power supply operably coupled to at least the processor and the memory;

25 the power supply operable to provide power to the processor, memory, communications interface, transceiver, LAN transceiver and environmental sensors;

a program of instructions storable in the memory and executable in the processor; and

the program of instructions operable to monitor and control a plurality of facets of the computing component, to generate an alert in response to detection of a monitored event and to transmit the alert via transceiver
5 to a remote device.

24. The intelligent management and control transceiver of Claim 23 further comprising:

the transceiver operable to receive management and
10 control instructions generated from a web site; and
the program of instructions operable to effect the web site generated management and control instructions.

25 The intelligent management and control
15 transceiver of Claim 23 further comprising the program of instructions operable to perform testing on one or more computing component capabilities.

26. The intelligent management and control
20 transceiver of Claim 23 further comprising the program of instructions operable to effect updates to software.

27. The intelligent management and control
transceiver of Claim 23 further comprising the processor,
25 memory, communications interface, transceiver, LAN transceiver, at least one environmental sensor and the power supply integrated onto a computing component expansion card.

30